#### **DRAFT**

### S-514 2-Bay Spillway

Revision 19 September 2000 - Original Submission

XY Coord 841070 583950

Location On C-6 between Krome Ave and FPL Buffer strip

Purpose Divide structure between water originating from WCA-2B and water

originating from Lake Okeechobee or C-11 Basin

**Notes** 1. Riprap requirements have not been verified with Geotech.

### **Design Conditions**

Discharge (CFS)2,000 cfsHeadwater Elevation6.10 ft,NGVDTailwater Elevation5.10 ft,NGVD

#### **Maximum Expected Stages**

Headwater Elevation 9.00 ft,NGVD Tailwater Elevation 8.75 ft,NGVD

#### **Maximum Head Difference**

Maximum Headwater Elevation 8.00 ft,NGVD Minimum Tailwater Elevation 4.00 ft,NGVD

#### **Crest Data**

Shape Ogee -5.00 ft, NGVD Crest Elevation Ogee Length 17.7 feet Net Crest Length 40.0 feet Number and Width of Piers 3.25 feet Approach Apron Elevation -12.00 ft, NGVD Approach Apron Width 43.25 feet Approach Apron Length 11.10 feet

#### **Gate Data**

Weir ControlSlide GateNumber of Gates2Gate Bay Width20.00 feetGate Height15.40 feetGate Clearance Elevation10.00 feet NGVDBase of Breastwall ElevationNone

## DRAFT

## S-514 2-Bay Spillway

## **Stilling Basin Data**

Design Discharge	2,250 cfs
Apron Elevation	-13.00 ft,NGVD
Training Wall Elevation	8.75 ft,NGVD
Apron Length from Toe of Ogee to Toe of Endsill	33.50 feet
End Sill Elevation	-12.05 ft,NGVD
Slope from apron to Top of End Sill	1 on 5
Baffle Block Elevation	-11.20 ft,NGVD
Baffle Block Width	1.80 feet
Rows of Baffle Blocks	2
Distance from toe of Ogee to 1st Row of Baffle Blocks	15.80 feet
Distance from toe of Ogee to 2st Row of Baffle Blocks	21.10 feet

## **Canal Data**

Side Slopes Cotangent	1
Upstream Bottom Width	35.00 feet
Upstream Bottom Elevation	-13.80 ft,NGVD
Downstream Bottom Width	45.00 feet
Downstream Bottom Elevation	-14.00 ft,NGVD

## **Riprap Requirements**

3.11 fps
5.00 fps
1,500 sq-ft
1.5 feet
1.0 feet

# Control Protection Elevation 11.00 ft,NGVD